PA Amplifiers

EUROPOWER EPX2000/EPX3000

EUROPOWER — Professional 3000/2000-Watt Light Weight Stereo Power Amplifiers with ATR (Accelerated Transient Response) Technology

- EPX3000: 2 x 1500 Watts into 2 Ohms; 2 x 900 Watts into 4 Ohms; 3000 Watts into 4 Ohms (bridge mode)
- EPX2000: 2 x 1000 Watts into 2 Ohms; 2 x 650 Watts into 4 Ohms; 2000 Watts into 4 Ohms (bridge mode)
- ATR (Accelerated Transient Response) technology for ultimate punch and clarity
- Ultra-light, ultra-low noise and ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption
- Switchable limiters offer maximum output level with reliable overload protection
- Detented gain controls for precise setting and matching of sensitivity
- Precise Power, Signal and Clip LEDs to monitor performance
- XLR, ¼" TRS and RCA input connectors for compatibility with any source
- Professional speaker connectors and "touch-proof" binding posts support most speaker wiring systems
- Built-in Subwoofer/Satellite crossover for more flexibility

Ultra-light, built on a legacy

Power amps have always been heavy, mainly because of the massive transformers and huge banks of capacitors needed for high-power operation. In fact, six conventional power amps in a rack can easily top 250 pounds. The same number of EPX Series amps come in at just under 134 lbs / 61 kg, and they pack all the power of their conventional counterparts!

In a class of their own

The secret to the EPX series' incredible power-to-weight ratio is their use of a switching-mode power supply combined with Class-H topology. Switching-mode power supplies work on demand. Instead of constantly working at full power and dissipating excess power as heat, they only ramp up the power output when needed—thousands of times per second. Considerably more efficient than traditional power supplies, switching-mode power supplies are small and light, yet deliver ample power.

Think of a Class H amp as a car with two engines (in amps, you call them "rails"). One engine runs all the time. The other runs only when musical peaks demand extra power output. An EPX Class H amp only generates a fraction more power than is immediately needed while the output stage operates at its maximum efficiency all the time.

And just like in today's hybrid cars, the efficiency of this dual system is far greater than having one engine or rail that must operate all the time. EPX amps don't waste power. Class H amps don't waste power, require much smaller heat sinks and much lighter power transformers.

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EUROPOWER EPX2000/EPX3000

- Independent DC and thermal overload protection on each channel automatically protects amplifier and speakers without shutting down the show
- "Back-to-front" ventilation system including air filter for reliable operation
- "Built-like-a-tank", impact-resistant, all-steel 2U rackmount chassis
- High-quality components and exceptionally rugged construction ensure long life
- Conceived and designed by BEHRINGER Germany

Accelerated Transient Response delivers the knock-out punch

It takes huge pulses of energy (current and voltage) to propel a woofer cone out fast enough to match a bass beat. That's called Transient Response and it's the holy grail of amp designers. By carefully selecting transistors with extremely high slew rates and optimizing other proprietary parts of our circuitry, our amps are able to react instantly to even the most demanding electronic bass impulses. If the woofers in your PA system can keep up, your audience will hear a tighter, crisper, more natural sound.

Instead of operating relatively continuously like Class AB circuits, Class H amps, which were first described in NASA technology (U.S. patent 3,319,175), feature rail tracking for effectively modulating the power supply rails with only the peaks of the input signal. This technology has revolutionized pro audio amp designs with its outstanding performance and efficiency. When combined with switching-mode power supplies that replace heavy toroid transformers, our new designs provide more dynamic punch and, because they are so much more efficient, run cooler and don't require huge, heavy heat sinks.

BEHRINGER didn't invent Class H technology, but our R&D Department has been working for years to perfect our own version, creating lightweight amps that run cool and also achieve our goal of Accelerated Transient Response.

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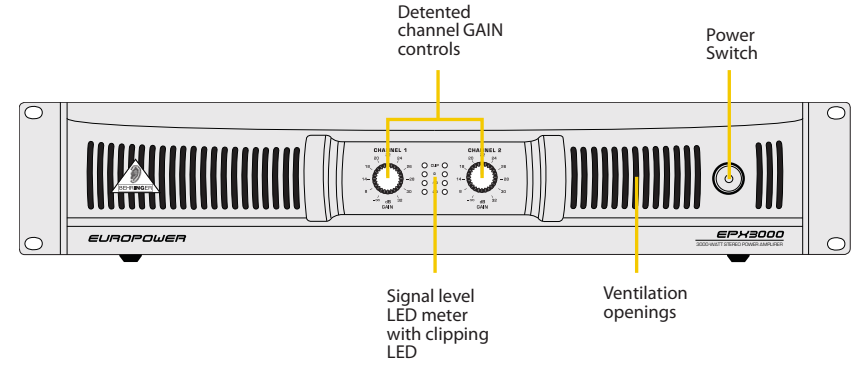
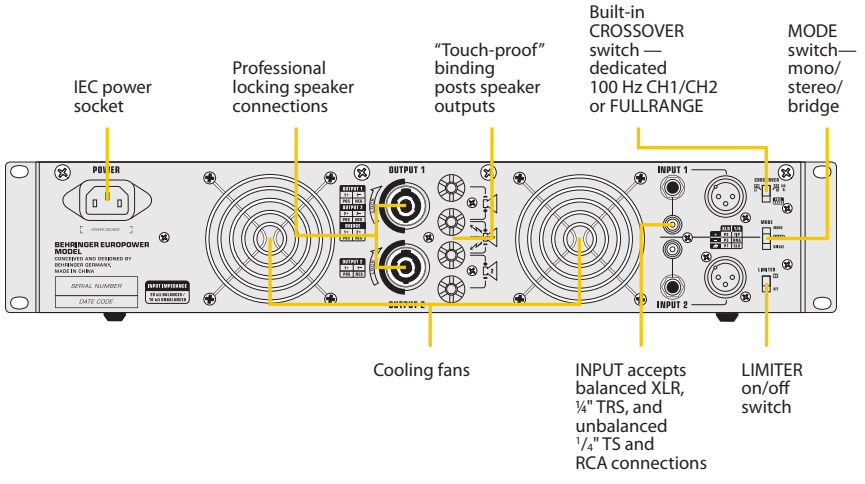
Front Panel



Rear Panel



EUROPOWER EPX2000/EPX3000

Everything you need, nothing you don't

The simple front panel controls of these amps give you all of your sound's vital signs at a glance. After pressing the Power Button, the POWER LED will light when the amp is ready for action. Both channels have independent gain dials as well as clip LEDs that indicate when the signal is distorted and you need to reduce the gain. There are also SIGNAL LEDs that light up when a signal is present at the input.

Panel discussion

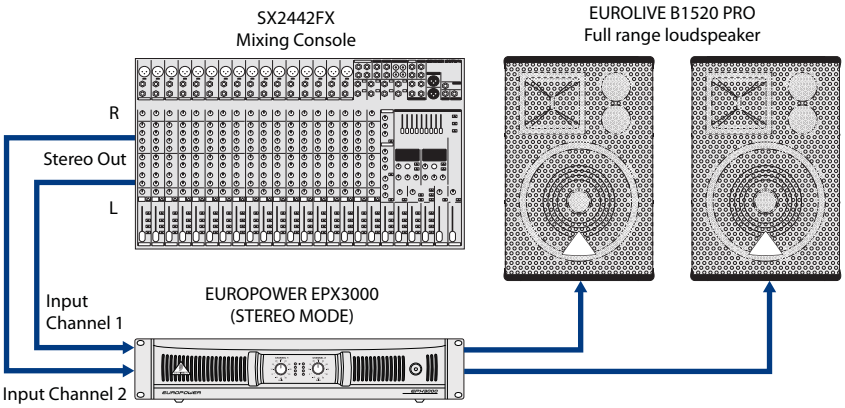
The EPX series' INPUTs accept balanced XLR, ¼" TRS, and unbalanced ¼" TS and RCA connections. Take your pick of professional locking speaker outputs or touch-proof binding posts to securely connect speakers.

A panel of switches found on the back offers an array of cool options applicable to both channels. The Clip Limiter lets you get even more out of the amplifier without overdriving either it or your speaker system. Built-in circuitry automatically senses when the amp is being overdriven into "clipping" and then momentarily reduces the input level to avoid clipping distortion. This all happens in a few thousandths of a second, so it's an inaudible way of avoiding audible clipping distortion. Of course, you can turn the Limiter off if you're feeling lucky.

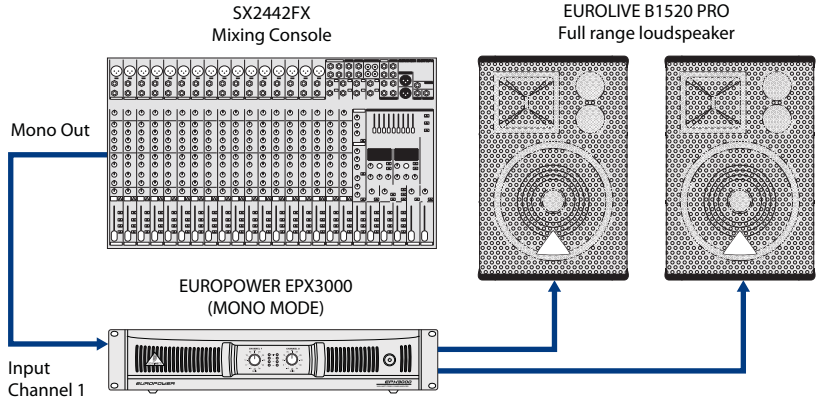
The same panel contains the switches that allow you to put these amps to work in either mono, stereo (two-channel mode) or bridge mode, which is always in mono. A built-in CROSSOVER switch lets you select the point at which highs and lows are separated (CH1<100Hz / CH2>100 Hz or FULLRANGE).

BEHRINGER's EPX line is built for the working musician. It's much easier to transport than a conventional AB power amp, it packs ample power, it's got a built-in crossover and limiter, and it's built to last through all the rigors of the road. Plus its light price tag will leave you with enough cash left over to acquire more stuff to amplify! Check out an EPX and find out why BEHRINGER power amps are among the most popular on Earth.

Stereo Mode



Mono Mode



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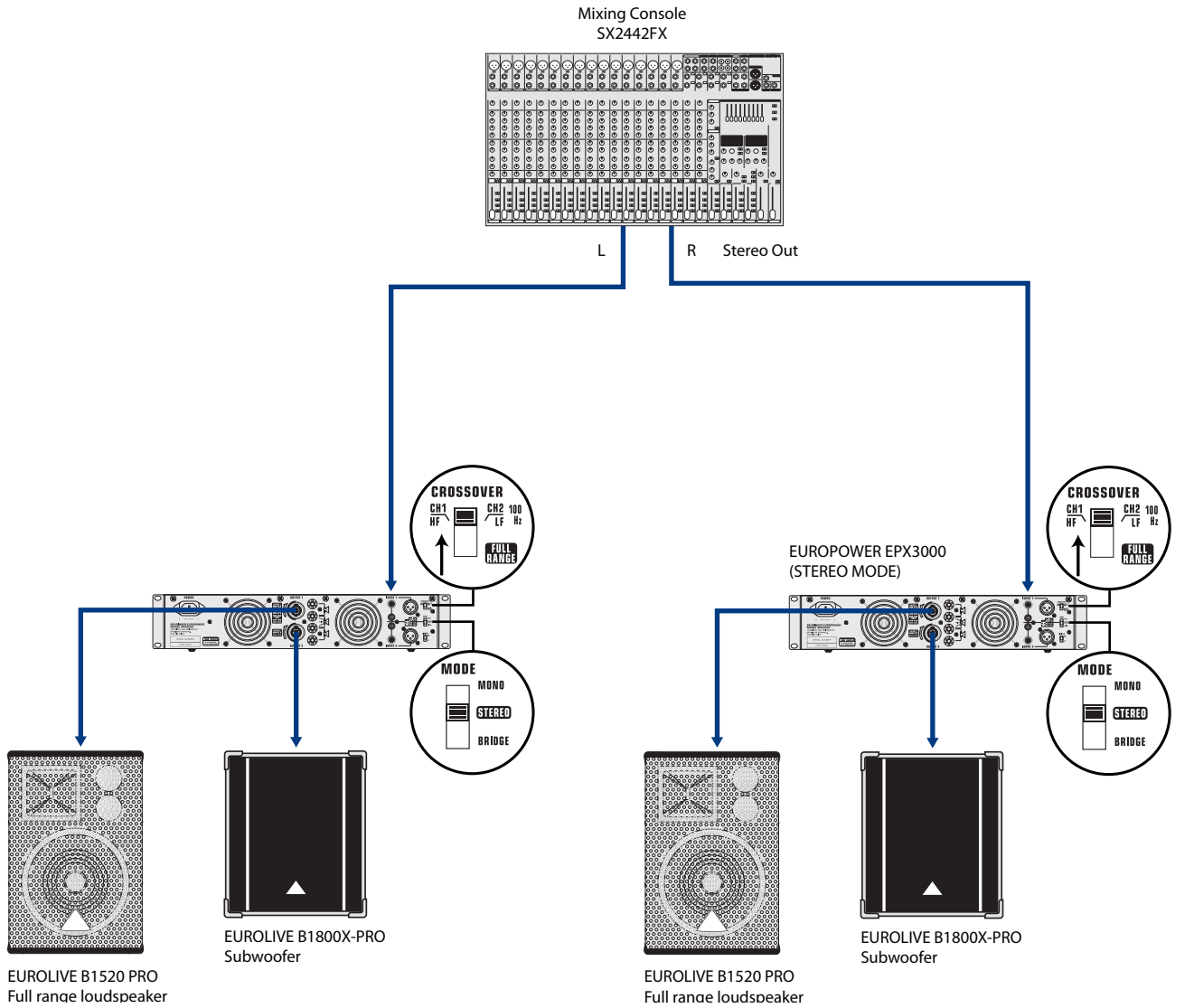
Biamp Mode



EUROPOWER EPX2000/EPX3000

OUTPUT POWER

RMS Power

Stereo Mode (both channels driven)

EPX2000	
8 Ω / 1 kHz @ 0.1% THD	350 W
4 Ω / 1 kHz @ 0.1% THD	600 W
2 Ω / 1 kHz @ 1% THD	1000 W

EPX3000	
8 Ω / 1 kHz @ 0.1% THD	550 W
4 Ω / 1 kHz @ 0.1% THD	900 W
2 Ω / 1 kHz @ 1% THD	1500 W

Bridged Mono

EPX2000	
8 Ω / 1 kHz @ 0.1% THD	1250 W
4 Ω / 1 kHz @ 1% THD	2000 W

EPX3000	
8 Ω / 1 kHz @ 0.1% THD	1800 W
4 Ω / 1 kHz @ 1% THD	3000 W

PEAK POWER

Stereo Mode (both channels driven)

EPX2000	
8 Ω / 1 kHz	400 W
4 Ω / 1 kHz	800 W
2 Ω / 1 kHz	1450 W

EPX3000	
8 Ω / 1 kHz	650 W
4 Ω / 1 kHz	1150 W
2 Ω / 1 kHz	2100 W

Bridged Mono

EPX2000	
8 Ω / 1 kHz	1650 W
4 Ω / 1 kHz	2900 W

EPX3000	
8 Ω / 1 kHz	2250 W
4 Ω / 1 kHz	4000 W

EPX2000/EPX3000	
Input Sensitivity	1 V

EPX2000/EPX3000	
Distortion	<0.01%

EPX2000/EPX3000	
Frequency Response	20 Hz - 20 kHz, +0/-1 dB

EPX2000/EPX3000	
Voltage Gain	35 dB

EPX2000/EPX3000	
Damping Factor	> 300 @ 8 Ω

EPX2000/EPX3000	
Input impedance	10 kΩ unbalanced, 20 kΩ balanced

EPX2000/EPX3000	
Signal-to-Noise	> 100 dBA

EPX2000/EPX3000	
Controls	
Front	POWER switch GAIN control (channel 1 and 2)
Rear	MODE switch X-over Switch, BRIDGE MODE switch

EPX2000/EPX3000	
Indicators	
POWER	Blue LEDs
CLIP (per channel)	Blue LEDs
PROT (per channel)	Blue LEDs
SIGNAL (per channel) -20dB~-10dB	White LEDs
SIGNAL (per channel) -10dB~ 0dB	White LEDs

EPX2000/EPX3000	
Connectors	
Inputs	Balanced XLR, ¼" TRS , RCA
Outputs	Speakon and "touch-proof" binding posts

EPX2000/EPX3000	
Circuit protection	
Cooling	Continuously variable speed fan,back to front air flow
Amplifier protection	Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads

EPX2000/EPX3000	
Output circuit type	Class H

POWER SUPPLY / VOLTAGE (FUSES)

EPX2000	
USA / Canada	120 V~, 60 Hz (T 20 A H 250 V)
UK / Australia	240 V~, 50 Hz (T 10A H 250 V)
Europe	230 V~, 50 Hz (T 10 A H 250 V)
Japan	100 V~, 50-60 Hz (T 20 A H 250 V)
Power consumption	3000 W
Mains connector	Standard IEC receptacle

EPX3000	
USA / Canada	120 V~, 60 Hz (T 30 A H 250 V)
UK / Australia (T 15A H 250 V)	240 V~, 50 Hz
Europe	230 V~, 50 Hz (T 15 A H 250 V)
Japan	100 V~, 50-60 Hz (T 30 A H 250 V)
Power consumption	4500W
Mains connector	Standard IEC receptacle

DIMENSIONS/WEIGHT

Dimensions (H x W x D)	
Weight	

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